

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A method for determining parameters of a fluctuating stream of fluid in a pipe using at least three electrodes provided at the periphery of the stream in spaced relationship to each other in the direction of flow, comprising:

~~providing~~sequencing the supply of an AC voltage signal to a first transmitting electrode configuration located upstream of a receiving electrode and to a second transmitting electrode configuration situated downstream thereof; and

~~receiving signals received at a~~the receiving electrode configuration that is located between the first and second transmitting electrodes in succession from the first and second transmitting electrodes in accordance with the sequencing of the supply of the AC signal;

~~analyzing the received signals from the first and second transmitting electrodes are registered by means of dielectric currents and are subjected to detect~~ a time-discrete cross correlation between received signals of the first and second transmitting electrodes; and

~~determining from the results of which the transit times of using the detected time-discrete cross correlation of the received signals~~fluctuations detected by the electrodes are determined.

2. (Currently Amended) A method as defined in claim 1, wherein;

~~the sequencing of the supply of the AC voltage signals are includes feeding the AC voltage signal to the first and second transmitting electrodes configurations in a temporally controlled manner; and~~

~~the analyzing of the received signals includes carrying out the time-discrete cross correlation is carried out implementing the using a profile of the temporal control of the first and second transmitted signals.~~

3. (Currently Amended) A method as defined in claim 1, wherein the sequencing of the supply of the AC voltage signal is alternately switched~~switching the supply of the AC signal~~

between to the first and second transmitting electrodes.

4. (Currently Amended) A method as defined in claim 1, wherein the ~~at least one first transmitting electrode configuration and/or the at least one second transmitting electrode configuration~~ has a plurality of single transmitting electrodes distributed around the periphery of the stream.

5. (Currently Amended) A method as defined in claim 1, further comprising using a further wherein two first transmitting electrode and a further two second transmitting electrode configurations are used.

6. (Currently Amended) A method as defined in claim 1, further comprising determining a velocity-distribution profile from the transit times of ~~the fluctuations between the~~ first and second electrodes by means of back projection.

7. (Currently Amended) A method as defined in claim 1, wherein the first and second electrodes ~~configurations are provided on a flexible insulating support material and that this the~~ support material is disposed on the inner or outer surface of a delivery pipe for the fluid.

8. (Currently Amended) A method as defined in claim 1, wherein a common external shield is provided for the first and second electrodes configurations.

9. (Currently Amended) A method as defined in claim 1, further comprising asymmetrically carrying out wherein the supply of the AC voltage signals and the measurement of the received signals are carried out asymmetrically on a common ground.

10. (Currently Amended) A method as defined in claim ~~14~~, wherein at least one of the plurality of single transmitting electrodes is shifted in position in an upstream/downstream direction relatively to the receiving electrode ~~configuration so that the a relevant distance can be adapted according to the an amplitude of the a resulting cross correlation value to optimize the amplitude of the resulting cross correlation values~~ same to the conditions of flow.

11. (Currently Amended) A device for determining parameters of a fluctuating stream of fluid in a delivery pipe using at least three electrodes provided at the ~~a~~ periphery of the stream in spaced relationship to each other in the a direction of flow, comprising:

a first transmitting electrode configuration located upstream and a second transmitting

electrode configuration located downstream, and a receiving electrode configuration located between the transmitting electrodes of the first and second electrode configurations, the first and second electrode configurations being provided at the periphery of a the stream of a the fluid passing through a the delivery pipe; and

a receiving and evaluation device having a receiving electrode circumferentially surrounding the periphery of the stream for detecting the received signals produced by dielectric currents, for carrying out a time-discrete cross correlation and for determining the transit times of the fluctuations detected by the receiving electrode electrodes from the cross correlation values.

12. (Currently Amended) A device as defined in claim 11, further comprising a driver circuit for temporally controlled feeding supplying of the an AC voltage signals signals to the transmitting electrode configurations.

13. (Currently Amended) A device as defined in claim 11, wherein ~~the~~ at least one first transmitting electrode configuration and/or at least one second transmitting electrode configuration have/has a plurality of single electrodes distributed around the periphery of the stream.

14. (Previously Presented) A device as defined in claim 11, wherein two first transmitting electrode configurations and two second transmitting electrode configurations are provided.

15. (Currently Amended) A device as defined in claim 11, wherein the electrode configurations are provided on a flexible insulating support material and ~~that this~~ the support material is situated on the inner or outer surface of a the delivery pipe for the fluid.

16. (Previously Presented) A device as defined in claim 11, wherein a common external shield is provided for the electrode configurations.

17. (Previously Presented) A device as defined in claim 11, wherein at least one of the transmitting electrode configurations is mounted for displacement in the upstream/downstream direction relative to the receiving electrode configuration.

18. (New) A device as defined in claim 11, wherein the receiving electrode is one common continuous receiver ring covering a circumference of the delivery pipe.